Scrambled-Up Proof

The reasons necessary to complete the following proof are scrambled up below. To complete the proof, number the reasons to match the corresponding statements.

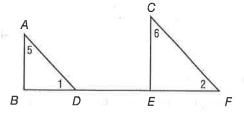
Given: $\angle 1$ and $\angle 5$ are complementary.

 $\angle 2$ and $\angle 6$ are complementary.

Enrichment

∠5 ≅ ∠6

Prove: $\overline{AD} \parallel \overline{CF}$



Statements	Reasons
1. ∠1 and ∠5 are complementary.	Converse of Corresponding Angles Theorem
2. ∠2 and ∠6 are complementary.	Given
3. ∠5 ≅ ∠6	Angles complementary to congruent angles are congruent.
4. ∠1 ≅ ∠2	Given
5. $\angle 1$ and $\angle 2$ are corresponding angles for lines \overrightarrow{AD} and \overrightarrow{CF} .	Segments contained in parallel lines are parallel.
$6.\overrightarrow{AD} \parallel \overrightarrow{CF}$	Definition of corresponding angles
$7.\overline{AD}\parallel\overline{CF}$	Given

Given: all b; bllc Prove: allc

1 1/2 4/ >2

Statements

1. all b and blc

2. ∠1≅∠3

3. L3 = L2

4. ∠2 = ∠4

5. ∠1=Z4

6. allc

Reasons Vert. 15 are

Trans. Prop.

___ Given

Alt. Int Ls Converse Thm.

Alt. Int. 15 Thm.

Alt. Int. 1s Thm.

Lesson 3-5