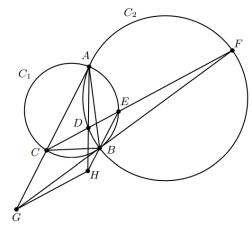
Example 196: As shown in Figure 1, two circles intersect at points A and B, and a straight line intersects two circles at four points D, D, E, and F. G is the intersection of AC and BF, and H is the intersection of AD and BE. Prove: GH // CF.

Proof: As a
$$\frac{H-A}{H-E} = \frac{B-A}{G-A} \frac{H-A}{C-F}$$
 result $\angle AGB = \angle AHB$, the four points

 $\angle ACF = \angle ABE = \angle AGH A$, B, H, and G share a circle,.



Explanation: Since the GH line is added last and does not appear in any conditions, it is impossible to obtain terms like G - F by conditional simplification, so it is difficult to solve the identity directly in one step, and can only be handled around the corner .